Immunotag™ SLC8A1 Antibody

Antibody Specification

Catalog No.	ITA9672
Product Description	Immunotag™ SLC8A1 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	SLC8A1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,ELISA
Recommended Dilution	WB 1:1000-3000 IHC 1:200
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human SLC8A1
Specificity	SLC8A1 Antibody detects endogenous levels of total SLC8A1
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	SLC8A1
Accession No.	P32418
Alternate Names	CNC; DKFZp779F0871; MGC119581; Na(+)/Ca(2+)-exchange protein 1; Na+/Ca2+ exchange protein 1; Na+/Ca2+ exchanger; NAC1_HUMAN; NCX 1; NCX; NCX1; SLC8A1; SLC8A1 protein; Sodium Calcium Exchanger; Sodium/calcium exchanger 1; Solute carrier family 8 (sodium/calcium exchanger) member 1; Solute carrier family 8 member 1;

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Description	Mediates the exchange of one Ca2+ ion against three to four Na+ ions across the cell membrane, and thereby contributes to the regulation of cytoplasmic Ca2+ levels and Ca2+-dependent cellular processes (PubMed:1374913, PubMed:11241183, PubMed:1476165). Contributes to Ca2+ transport during excitation-contraction coupling in muscle. In a first phase, voltage-gated channels mediate the rapid increase of cytoplasmic Ca2+ levels due to release of Ca2+ stores from the endoplasmic reticulum. SLC8A1 mediates the export of Ca2+ from the cell during the next phase, so that cytoplasmic Ca2+ levels rapidly return to baseline. Required for normal embryonic heart development and the onset of heart contractions.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	109kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.